

New avenues in dark matter detection

Thursday, November 10, 2022 10:00 AM (30 minutes)

The exploration of dark matter beyond the WIMP is of vital importance towards resolving the identity of dark matter. I will present new proposals for the direct detection of light dark matter which hold much promise. These include the use of superconducting nanowires, two-dimensional targets such as graphene, and heavy fermion systems. Considering dark matter interactions with these targets, I will demonstrate the potential of the light dark matter direct detection program in upcoming years.

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